

Title (en)  
RECTIFIER DEVICE FOR AC GENERATOR OF AN AUTOMOBILE

Publication  
**EP 0326281 A3 19900328 (EN)**

Application  
**EP 89300453 A 19890118**

Priority  
JP 842188 U 19880125

Abstract (en)  
[origin: EP0326281A2] A rectifier device (2) for a three phase AC generator (1) of an automobile is disclosed, in which the rectifier diodes (201, 202, 203) are of the high speed switching type having a reverse recovery time of not more than 2 seconds. Thus, the commutation surges, which adversely affects the performance of the equipment supplied by the output of the rectifier device (2), are suppressed. The generator (1) may have armature coils (101) in Y-connection and the rectifier device may comprise, in addition to the full-wave rectifier circuit (2) which rectifies the line output voltages of the armature coils in Y-connection, a series circuit of a pair of diodes (201d, 203d) which is coupled across the output terminals of the above mentioned full-wave rectifier circuit (2), wherein the neutral point of the Y-connected armature coils is coupled to an intermediate point between the pair of diodes. In such case, only the diodes of the series circuit, or alternatively, only the diodes of the full-wave rectifier circuit, may be of the high speed switching type. The rectifier device (2) may further comprise auxiliary diodes for outputting a voltage to a voltage regulator, which diodes are not high speed switching type.

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CPC (source: EP)  
**H02M 7/08** (2013.01)

Citation (search report)  
• [Y] EP 0075320 A1 19830330 - MITSUBISHI ELECTRIC CORP [JP]  
• [Y] FR 2081863 A7 19711210 - NIPPON DENSO CO  
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• [Y] ELECTRONIQUE INDUSTRIELLE, no. 138, November 1970, pages 695-700, Paris, FR; L. BERMOND et al.: "La commutation dans les diodes de puissance et ses effets - utilisation des diodes rapides"

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**EP 0326281 A2 19890802**; **EP 0326281 A3 19900328**; **EP 0326281 B1 19940413**; DE 68914481 D1 19940519; DE 68914481 T2 19940804; JP H01113587 U 19890731

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